

PROCESSING AND PROPERTIES INDEX																									
COMMON ELEMENTS													COMMON VARIABLES INDEX												
<p>11B</p> <p>A method for determination of urea in urine. F. A. Syrolova, <i>Lab. Prakt. (U. S. S. R.)</i> 16, No. 6, 23-4 (1971). S. compared the accuracies of several methods for detg. urea in urine and proposes the method of Lee and Widdowson (<i>C. A.</i> 32, 2337*) for detg. urea in the blood and his own modification of the method of Kikuchi for detg. urea in urine (<i>C. A.</i> 19, 2881). The method for detg. urea in urine is based on the formation of dioxanthyl-urea from the reaction with xanthidrol. Dil. 10 ml. of urine to 100 ml. with distd. water, add 35 ml. of glacial AcOH and add 5 ml. of 10% xanthidrol soln. in MeOH (in 1-ml. portions during 10 min.). After 1 hr. filter the crystals on a filter connected to a water pump, wash with 20 ml. of MeOH, dry the residue in a Schott crucible in a drying oven at 100-5° for 15 min. and weigh. The amt. of urea is obtained by dividing the wt. of the ppt. by 7 (the mol. ratio of dioxanthylurea to urea is 7:1). The modification proposed has no effect on the accuracy of the method, but reduces the amts. of xanthidrol, MeOH and glacial AcOH required for the detn. Add distd. water to 5 ml. of urine to make a vol. of 100 ml. Take 5 ml. of the soln., add 5 ml. of glacial AcOH and 1 ml. of 10% xanthidrol soln. in MeOH (in 0.2-ml. portions after every 2 min.). Let stand for 1 hr., filter, wash the ppt. with 10 ml. of MeOH, rinse the beaker 4 times with 10 ml. of MeOH, dry at 100-5° for 15-20 min. and weigh after 30 min. Eleven references.</p> <p>W. R. Henn</p>																									
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A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [\] ^ _ ` a b c d e f g h i j k l m n o p q r s t u v w x y z																									
1ST AND 2ND ORDERS																									
<p>CH</p> <p>11 T</p> <p>Protein metabolism in the development of malignant neoplasms. II. Urea formation in rabbits affected with Brown-Pearce cancer. F. A. Sverdlova. <i>Arch. int. biol. (U. S. S. R.)</i> 61, No. 2-4, 1968, 119-121. In a previous report (C. J. 34, 2448) it had been shown that the urea excreted by rabbits inoculated with Brown-Pearce cancer decreased. To det. whether the decrease was due to a disturbance in the urea formation mechanism, rabbits were fed with $(\text{NH}_4)_2\text{CO}_3$ and glycine, substances which are known to increase urea formation. $(\text{NH}_4)_2\text{CO}_3$ acted the same on normal rabbits as on rabbits inoculated with the Brown-Pearce strain; in both instances, the blood urea increased. In normal rabbits, glycine brought about an increase in the blood urea, but in cancerous rabbits, no increase was observed. Cf. C. J. 34, 2448.</p> <p>H. Priestley</p>																									
<p>ASAC-SLA METALLURGICAL LITERATURE CLASSIFICATION</p> <p>13000 13100 13200 13300 13400 13500 13600 13700 13800 13900 14000 14100 14200 14300 14400 14500 14600 14700 14800 14900 15000 15100 15200 15300 15400 15500 15600 15700 15800 15900 16000 16100 16200 16300 16400 16500 16600 16700 16800 16900 17000 17100 17200 17300 17400 17500 17600 17700 17800 17900 18000 18100 18200 18300 18400 18500 18600 18700 18800 18900 19000 19100 19200 19300 19400 19500 19600 19700 19800 19900 20000 20100 20200 20300 20400 20500 20600 20700 20800 20900 21000 21100 21200 21300 21400 21500 21600 21700 21800 21900 22000 22100 22200 22300 22400 22500 22600 22700 22800 22900 23000 23100 23200 23300 23400 23500 23600 23700 23800 23900 24000 24100 24200 24300 24400 24500 24600 24700 24800 24900 25000 25100 25200 25300 25400 25500 25600 25700 25800 25900 26000 26100 26200 26300 26400 26500 26600 26700 26800 26900 27000 27100 27200 27300 27400 27500 27600 27700 27800 27900 28000 28100 28200 28300 28400 28500 28600 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<p>PROCESSES AND OPERATIONS UNDER</p>	
<p>cat</p>	<p>11/E</p>
<p>Influence of a poor protein diet on the metabolism of amino- and ketoacids and the glycogen content of the liver and muscle in white rats. S. Ya. Kaplanikil, F. Sverdlova, and S. Kaplanskaya. <i>Biokhimiya</i> 10, 225-33 (1945).—An insufficient protein diet results in a severe disturbance of the nitrogenous metabolism. There is a decrease in urea formation and an increase of ketonic acids and bisulfite-binding substances in the urine. If the amt. of proteins in the serum does not fall below 4%, restitution is possible, and is best attained by feeding liver tissue. The metabolic disturbances are irreversible and restitution is impossible if the serum protein falls below 4%.</p>	
<p>H. Priestley</p>	
<p>ASAC-3LA METALLURGICAL LITERATURE CLASSIFICATION</p>	
<p>RECORD NUMBER</p>	
<p>RECORD NUMBER</p>	
<p>RECORD NUMBER</p>	

SVERDLOVA, F.A.

Oxidation of keto- and dicarboxylic acids during protein deficiency in the food of young animals. Vop.med.khim. 3:257-262 '51. (MIRA 11:4)

1. Otdel fiziologii Tsentral'nogo nauchno-issledovatel'skogo pediatri-
cheskogo instituta Ministerstva zdravookhraneniya RSFSR, Moskva.
(ACIDS, ORGANIC) (PROTEIN METABOLISM)
(OXIDATION, PHYSIOLOGICAL)

SHEMLER, M.Ye.; SVERDLOVA, G.M., redaktor; DVORKINA, B.A., redaktor.

[Aviation industry in foreign countries; a collection of translations and references] Aviatsionnaya promyshlennost' zarubezhnykh stran; sbornik perevodov i referatov. Sostavil M.Ye. Shtemler. Pod obshchei red. G.M.Sverdlova i B.A. Dvorkina.[n.p.] Izd-vo BNT No.5 [Economic aspects of transport planes] Problemy ekonomichnosti transportnykh samoletov. 1946. 57 p. [Microfilm] (MLRA 8:9)

1. Russia (1923- U.S.S.R.) Ministerstvo aviatsionnoy promyshlennosti. Byuro novoy tekhniki.
(Aeronautics, Commercial)

TSEYTLIN, Roza Davydovna; NEMIROVSKIY, S.A., otvetstvennyy redaktor;
SVERDLOVA, I.S., redaktor; BERESLAVSKAYA, L.Sh., tekhnicheskii
redaktor

[Leading fitters and solderers] Peredovye monter-spaishchiki.
Moskva, Gos. izd-vo lit-ry voprosam svyazi i radio, 1956. 18 p.
(Solder and soldering) (MIRA 9:12)
(Telephone)

SEменов, Innokentiy Innokent'yevich; FROLOVA, Lyudmila Gur'yevna;
GOLUBTSOV, I.Ye., otv. red.; SVERDLOVA, I.S., red.;
SLUTSKIN, A.A., tekhn. red.

[Relay-terminal rural (VRS-20M) automatic telephone exchange with a capacity of twenty numbers; a collection of articles with a supplementary schematics folder] Sel'skaia relainaia okonechnaia ATS emkost'iu 20 nomerov (ATS VRS-20M); informatsionnyi sbornik s prilozheniem al'boma skhem. Moskva, Gos. izd-vo literatury po voprosam svyazi i radio, 1961. 127 p. ____ [Album of diagrams for the information collection on communications technology] Al'bom skhem k informatsionnomu sborniku po tekhnike svyazi. 23 p. 1961. (MIRA 15:3)

(Telephone, Automatic)

MOROZ, Nikolay Andreyevich; TOIMACHEV, Yuriy Aleksandrovich; KON'KOV, V.I.,
otv. red.; SVERDLOVA, I.S., red.; SHEFER, G.I., tekhn. red.

[Repair of telegraph apparatus and automated attachments] Remont tele-
grafnykh apparatov i pristavok avtomatizatsii. Moskva, Gos. izd-vo
lit-ry po voprosam sviazi i radio, 1961. 239 p. (MIRA 14:11)
(Telegraph—Equipment and supplies)

KANTOR, L.Ya.; GUMEL'YA, A.N.; ROZENBERG, Ya.G.; AFANAS'YEV, A.P.;
SAMORUKOV, D.A.; GUSEV, S.S.; DOGADIN, V.N.; RAMENSKIY, B.N.;
PIONTKOVSKIY, B.A.; SVERDLOVA, I.S., red.; KARABILOVA, S.F.,
tekhn. red.

[Electric communications and wire broadcasting] Elektriches-
skaya svyaz' i radiofikatsiya. Moskva, Gos. izd-vo lit-ry
po voprosam svyazi i radio, 1961. 607 p. (MIRA 14:5)
(Telephone) (Wire broadcasting)

SEMENOV, I.I.; KUTASHOV, P.D.; GOLUBTSOV, I.Ye., otv. red.;
SVERDLOVA, I.S., red.; SHEFER, G.I., tekhn. red.

[New equipment for rural automatic telephone stations] No-
voe oborudovanie dlia sel'skikh ATS; informatsionnyi sbornik.
Moskva, Svia'izdat, 1962. 62 p. (MIRA 16:5)
(Telephone, Automatic)

FROLOV, Pavel Alekseyevich; TYULYAYEV, A.N., otv. red.; SVERDLOVA,
I.S., red.; SLUTSKIN, A.A., tekhn. red.

[Small coaxial communication cables] Malogabaritnye koaksial'-
nye kabeli sviazi. Moskva, Sviaz'izdat, 1962. 76 p.
(MIRA 15:9)

(Coaxial cables)

UDOVICHENKO, Anatoliy Matveyevich; VOROTSKAYA, Z.A., otv. red.;
SVERDLOVA, I.S., red.; MARKOVH, K.G., tekhn. red.

[Principles of radio communication and wire broadcasting
techniques] Osnovy tekhniki provodnoi i radiosvazi. Moskva,
Sviaz'izdat, 1962. 366 p. (MIRA 16:2)
(Wire broadcasting) (Radio)

KANTOR, L.Ya.; GUMEL'YA, A.N.; ROZENBERG, Ya.G.; AFANAS'YEV, A.P.;
SAMORUKOV, D.A.; GUSEV, S.S.; DOGADIN, V.N.; RAMENSKIY,
B.N.; KARASIK, N.S.; PIONTKOVSKIY, B.A.; Prinimal uchastiye
MEDOVAR, A.I.; SVERDLOVA, I.S., red.; ULANOVSKAYA, N.M.,
red.; MARKOCH, K.G., tekhn. red.

[Electrical communications and wire broadcasting] Elektricheskaya svyaz' i radiofikatsiya. [By] L.IA.Kantor i dr.
Izd.2., dop. i ispr. Moskva, Svyaz'izdat, 1963. 672 p.
(MIRA 16:8)

(Wire broadcasting) (Telecommunication)

LOGINOV, Anatoliy Georgiyevich. Prinimal uchastiye KARASIK, N.S.;
KOKSHARSKIY, N.S. dots., retsenzent; ZVERDLOVA, I.S., red.

[Organization, planning, and design of rural telephone
systems] Organizatsiia, planirovanie i proektirovanie
sel'skoi telefonnoi svyazi. Moskva, Izd-vo "Sviaz',"
1964. 147 p. (MIRA 17:7)

1. Leningradskiy elektrotekhnicheskii institut svyazi im.
M.A. Bonch-Bruyevicha (for Koksharskiy). 2. Starshiy inzhe-
ner Glavnogo upravleniya gorodskoy i sel'skoy telefon-
svyazi i radiofikatsii Ministerstva svyazi SSSR (for Karasik).

YUZBASHEV, Suren Georgiyevich; SHKUTNIK, Eduard Stanislavovich;
~~SVERDLOVA, M.A.~~, nauchn. red.; GLAZUNOVA, Z.M., red.
izd-va; SHERSTNEVA, N.V., tekhn. red.

[Principles of planning, accounting, and business accounting in designing and engineering research organizations] Osnovy planirovaniia ucheta i khozrascheta v proektnykh i izyskatel'nykh organizatsiiakh. Moskva, Gosstroizdat, 1963. 338 p. (MIRA 16:12)

(Construction industry—Accounting)

(Architecture—Designs and plans)

BONFEL'D, Semen Markovich, uchitel' fiziki, izobretatel'; SVERDLOVA, O.G.,
red.; NAZAROVA, A.S., tekhn.red.

[Start of the future innovators in industry; from the practice of
teaching physics] Nachalo puti budushchikh novatorov proiz-
vodstva; iz opyta prepodavaniia fiziki. Moskva, Izd-vo "Znanie,"
1962. 47 p. (Novoe v zhizni, nauke, tekhnike. XI seria:
Pedagogika, no.5) (MIRA 15:5)

(Physics—Study and teaching)

Electronic absorption spectra of benzene and its solutions in ethanol and hexane. V. M. Chulanovskii, T. G. Meister, and O. V. Sverdlova. *Vestnik Leningrad. Univ.* 10, No. 8, Ser. Mat. i Est. Khim. No. 3, 123-7 (1955); cf. *C.A.* 49, 13770i. —The position and half-width of 2 benzene absorption bands ($\nu_1 = 39,225$ and $\nu_2 = 38,295$ cm^{-1}) were studied as a function of the concn. of benzene in two different types of solvent, EtOH and hexane. The concns. varied from 0.0013% to 100%. Both bands, in both solvents, show a gradual pos. peak-frequency shift up to a displacement of about 120 cm^{-1} for concns. decreasing from 100% to about 5%. After this the position of both bands remains const. The half-width of ν_1 decreases by about 100 cm^{-1} , and that of ν_2 decreases by about 80 cm^{-1} , for both solvents, with the same concn. dependence as for the frequencies. These phenomena are explained on the basis of the vibrational structure of the electronic bands, by suggesting that the contour of the bands, in the main, is detd.

by the strong vibrational "breathing" frequencies of benzene. A variation in concn. effects a redistribution of vibrational transition probabilities, and thus a change in the band contours. Since the changes were approx. the same in both solvents, it is postulated that the greatest interactions giving rise to band contour changes take place between the excited and unexcited benzene mols., rather than between solvent mols. and benzene. This also explains the constancy of frequency and band width at the lower concns. For instance, the av. sepn. of benzene molecules at a 1% concn. is about 25 Å.

R. D. Kross

SOV/51-6-3-11/28

AUTHOR: Sverdlova, O.V.

TITLE: On the Effect of the Solvent on the Electronic Absorption Spectra of Benzene and Chlorbenzene (O vliyani rastvoritelya na elektronnyye spektry pogloshcheniya benzola i khlorbenzola)

PERIODICAL: Optika i Spektroskopiya, 1959, Vol 6, Nr 3, pp 349-353 (USSR)

ABSTRACT: The author studied displacement of the absorption bands of benzene and chlorbenzene in the region of 2500-2700 Å⁰ in a large number of solvents. Benzene was used because its molecule is neutral and non-polar, because it dissolves easily in a large number of organic solvents and because its absorption bands in the near ultraviolet region are sufficiently narrow for observation of their shift. Chlorbenzene was investigated in order to find the effect of substitution and the dipole moment so produced on the interaction of chlorbenzene with solvents. The absorption spectra were obtained using a quartz spectrograph ISP-22. A krypton lamp GSVD-120 was used as the source of light. Positions of the Card 1/4 absorption bands were determined with respect to the mercury

SOV/51-6-3-11/28

On the Effect of the Solvent on the Electronic Absorption Spectra of Benzene and Chlorbenzene

(Fig.2). In each case dependence between the wave number of the absorption band and $(n^2 - 1)/(2n^2 + 1)$ of the solvent can be expressed by means of a straight line. This linear dependence indicates that the effect of solvents on the positions of the electron absorption bands of benzene and chlorbenzene is a polarisation shift with the solvent acting as a continuous polarising medium, i.e. each molecule of benzene or chlorbenzene is acted upon simultaneously by a large number of the solvent molecules. Local interactions between solvent and solute molecules produce departures from the linear relationships shown in Figs.1 and 2. Fig.3 gives the dependence of the width of the 38250 cm^{-1} absorption band of benzene on $(n^2 - 1)/(2n^2 + 1)$ of the solvent. The results of Fig.3 show that the absorption band width increases with increase of the refractive index of the solvent. Acknowledgment is made to V.M. Chulanovskiy who directed this work. There are 4 figures, 1 table and 10 references, Card 3/4 of which 3 are Soviet, 3 English, 1 German, 1 French,

SVERDLOVA, O.V.

NAME: BOOK: ILLUMINATION: 804/513

Leningrad. University

Molekularnaya spektroskopiya (Molecular Spectroscopy) [Leningrad] Izd-vo Leningr. univ., 1960-198 p. 4,700 copies printed.

Resp. Ed.: V. I. Kuripov; Eds.: Ye. V. Shchemelova and V. D. Plastro; Tech. Ed.: S. D. Volodina.

PURPOSE: This collection of articles is intended for scientific workers, instructors and students of physics and chemistry. It may also be used by engineers and technicians employing molecular spectroscopy.

CONTENT: The collection of articles describes spectroscopic studies of liquids and solutions, and includes data on applied molecular spectroscopy. Individual articles deal with the molecular interaction in solutions, and specifically with the hydrogen bond problem. Works on the system utilization of spectral apparatus and on the analytical application of molecular spectroscopy are also included.

Aspects of the structure of high and low molecular compounds and of molecular complexes are also covered. The collection was published in honor of the 70th birthday of Professor Vladimir Viktorovich Chulakovskiy, Soviet specialist in molecular spectroscopy and spectral analysis. There are no references.

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IOFFE, Boris Veniaminovich. Prinimali uchastiye: TATARSKIY, V.B., prof.;
FRENKEL', S.Ya., starshiy nauchnyy sotrudnik; RYSKIN, Ya.I.,
nauchnyy sotrudnik; SVERDLOVA, O.Y., mladshiy nauchnyy sotrudnik;
RAVDEL', A.A., red.; SHEYNINA, G.A., red.; ERLIKH, Ye.Ya.,
tekhn.red.

[Refractometric methods in chemistry] Refraktometricheskie metody
khimii. Leningrad, Gos.nauchno-tekhn.izd-vo khim.lit-ry, 1960.
382 p. (MIRA 14:2)

1. Leningradskiy universitet (for Tatarskiy). 2. Institut vysoko-
molekulyarnykh soyedineniy AN SSSR (for Frenkel'). 3. Institut
khimii silikatov AN SSSR (for Ryskin).
(Refractometry)

SVERDLOVA, Roza Markovna; SHEMAKHANSKIY, Viktor Timofeyevich; KUZNETSOV,
A.T., red.; TURETSKIY, Sh.Ye., red.; ISHKOVA, A.K., red.;
BABICHEVA, V.V., tekhn.red.

[Retail prices for textile notions and goods] Roznichnye tseny
na tekstil'no-galantereinye tovary. Pod red. A.T.Kuznetsova i
Sh.IA.Turetskogo. Moskva, Gos.izd-vo torg.lit-ry, 1960. 47 p.
(MIRA 14:1)

(Notions (Merchandise)--Prices) (Textile fabrics--Prices)

SVETDLOVA, Sh.I (Tartu, Estonskaya SSR)

~~Tenth anniversary of the Tartu Republic Secondary Medical School.~~
Med.sestra no.5:31 My '55. (MLRA 8:6)
(TARTU—MEDICAL COLLEGES)

SVERDLOVA, S. M.

"The Clinical Aspects and Therapy of Diphtheritic Paralysis", Pediatrics, No. 2,
1948... Mar., Nerve Clinic, Central Sci. Res. Pediatric Inst., Min. Public Health
RSFSR, -c1948-.

KRIGER, Yu.A.; SVERDLOVA, Ye.A.; VAYNSON, A.A.

Change in the physicochemical properties of erythrocytes
caused by heating. Nauch. dokl. vys. shkoly; biol. nauki
no.3:76-81 '64 (MIRA 17:8)

1. Rekomendovana kafedroy biofiziki Moskovskogo gosudarstven-
nogo universiteta.

REF ID: A5902

S/0020/55/160/003/0713/0716

AUTHOR: Frigeri, Yu. A. Sverdlova, Ye. A.

19
B
TITLE: Effect of gamma rays and vibration on the physical and chemical nature of red blood cells

SOURCE: AN SSSR. Doklady, v. 160, no. 3, 1965, 713-716

TOPIC TAGS: vibration, gamma radiation, biological effect, hemodynamics, erythrocyte, osmotic resistance, cation balance

ABSTRACT: The purpose of this experiment was to investigate the influence of gamma radiation on the physical and chemical qualities and the cation content of erythrocytes. The erythrocytes were obtained from whole blood which was separated from the plasma and placed in a physiological solution. The erythrocytes were irradiated with gamma rays from a ⁶⁰Co source at a dose rate of 1000 r/hr, which varied from 0.5 to 80 kr. The vibration was applied at 10 cps and an amplitude of 0.5 mm. The measurements were taken before, during, and after irradiation. All remaining measurements were taken after radiation. The storage temperature was 4°C to reveal the maximum effects of radiation and vibration. It was found that neither 80 kr

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19.05-15

ACCESSION NR: AP5005902

nor subsequent vibration affected the dielectric or osmotic nature of human blood. The results held true for samples exposed to simultaneous radiation and vibration. Measurements of the release of calcium from erythrocytes 5-7 hr after irradiation (4, 6-, 30-, and 80-kr doses) and subsequent vibration (1-hr interval) revealed that with up to ceased radiation dose, there was an increase in calcium release. Vibration, however, did not intensify this process in either the experimental or control groups. This showed that sucrose had a far more deleterious effect on irradiated erythrocytes than plasma. The osmotic resistance of erythrocytes in physiological solution was lowered upon exposure to the same dose. This was probably due to the fact that plasma acted as a radioprotective agent. Vibration did not affect the osmotic resistance of either irradiated or control erythrocytes. [CD]

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M. V. Lomonosova (Moscow State University)

SUBMITTED: 25May64

ENCL: 00

SUB CODE: LS

NO REF SOV: 000

OTHER: 004

ATD PRESS: 3196

Card 2/2

KRIGER, Yu.A.; SVERDLOVA, Ye.A.

Dynamics of the change in properties of photosensibilized erythrocytes. Biofizika 10 no.1:176-178 '65. (MIRA 18:5)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova, Moskva.

KRIGER, Yu.A.; SVERDLOVA, Ye.A.

Effect of gamma rays and vibration on physicochemical properties
of red blood corpuscles. Dokl. AN SSSR 160 no.3:713-716 . Ja '65.
(MIRA 18:3)

1. Moskovskiy gosudarstvennyy universitet. Submitted May 26, 1964.

LYAMIN, Yu.; UTKIN, E.; SVERDIYUK, Sh.; AKOSTA, S.; BRLOVA, A.; BALDYGA, N;
GOL'D, A.; ZVEZDINA, A.; PASECHNIK, N.; SHEYNGAUZ, S.

Revolving credit. Den. i kred. 17 no. 4:52-61 Ap '59.
(MIRA 12:8)
(Credit)

SVERDRUP, A.

Cooperation of the Scandinavian countries in the field of scientific
and technological information. NTI no.9:46-48 '63. (MIRA 16:12)

SVEREPA, Otakar; DOKSANSKY, Vladimir

Use of calcium⁴⁵ for examination of deposits precipitated from
steel corrosion in water. Jaderna energie 8 no.12:434-436 '62.

1. Statni vyzkumny ustav ochrany materialu G.V.Akimova, Praha.

SVERGUN, I.P.

Tula Forests. Priroda 52 no.8:60-61 Ag '63.
(Tula Province—Forests and forestry)

(MIRA 16:9)

SVERGUN, I.P.

Development of Quaternary relief and the problems of the geomorphological regionalization of Tula Province. Biul. MOIP Otd.
geol. 40 no. 6:108-112 N-D '65 (MIRA 19:1)

Feb SSD/AFWL/RAEM(a)/AFETR/APGC(b)/ESD(gs)
S/0109,54: 07/012/2156/2165
ACCESSION NR: AP-000457
AUTHOR: Agabekyan, A. S., Grasyuk, A. Z., Zubarev, I. G.; Svergun, V. I.;
Orayevskiy, A. N.

TITLE: Stabilization of unstable conditions in a two-level quantum generator 25

SOURCE: Radiotekhnika i elektronika, v. 9, no. 12, 1964, 2156-2165

TOPIC TAGS: quantum generator, quantum generator stabilization

ABSTRACT: Two methods of stabilizing automodulation conditions in a two-level quantum generator are theoretically considered: (1) Locking-in of the unstable generator by a low-power constant-amplitude generator; (2) Stabilization by means of a resonator-Q negative feedback. The effect of a constant-amplitude external force on the stability of the amplitude of oscillations is mathematically investigated. To stabilize automodulation conditions, the magnitude of the external force should exceed a certain threshold which depends on the parameters

Card 1/2

L 19028-65

ACCESSION NR: AP5000457

of the generator being locked; hence, phase and amplitude locking-in must be distinguished. Four equations describing the stabilization by a resonator-Q negative feedback are set up and analyzed. Orig. art. has: 7 figures and 52 formulas.

ASSOCIATION: none

SUBMITTED: 31Jul63

SUB CODE: EC

NO REF SOV: 005

ENCL: 00

OTHER: 001

Card 2/2

SOV/123-59-16-64677

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 16, p 143 (USSR)

AUTHOR: Svergunenko, A.A.

TITLE: Corrosion Protection of Equipment for the Production of Ethyl Benzene and Isopropyl Benzene

PERIODICAL: Byul. tekhn.-ekon. inform. Sovnarkhoz Stalinskogo ekon. adm. r-na, 1958, Nr 10, 14

ABSTRACT: The technology of using an anticorrosive bakelite coating with gauze for the corrosion protection of the inner surface of alkylation towers for the production of ethyl benzene and isopropyl benzene is described. The service life of the towers is increased from 45 to 90 days.
K.S.A.

Card 1/1

85732

S/170/60/003/007/015/018/XX
B019/B067

6.8000 (3201, 1099, 1162)

AUTHOR: Svergunenko, L. A.

TITLE: The Problem of the Effect of Heat Conduction on Sound Absorption in Crystals

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, 1960, Vol. 3, No. 7,
pp. 117 - 120

TEXT: In the present study, the author uses the deformation tensor u_{ik} and the temperature T as thermodynamical variables. The free energy per unit volume of the crystal may then be expanded in a power series of u_{ik} and $\Theta = T - T_0$: $F(T, u_{ik}) = F(T_0) + \frac{1}{2} \lambda_{iklm} u_{ik} u_{lm} + \alpha_{ik} u_{ik} \Theta + \frac{1}{2} \gamma \Theta^2$ (1). Here, $F(T_0)$ denotes the free energy of the sample without sound disturbances. For irreversible processes, the following thermodynamical formula is obtained: $\dot{\Theta} = -\tau^{-1}(\Theta - \bar{\Theta})$ (3), where $\bar{\Theta}$ is an equilibrium value of Θ for given values of the deformation tensor. By introducing a new variable

Card 1/2

SVERGUNENKO, L. A.

" Effect of thermal conductivity on sound absorption in defect crystals."

Report presented at the 1st All-Union Conference on Heat- and Mass-Exchange, Minsk, BSSR, 5-9 June 1961.

SVERGUNENKO, L.A.

24,1200(1109,1147,1327)

AUTHOR: Sverhunenko, L.O.

28436
S/185/61/006/002/008/020
D210/D304

TITLE: Thermodynamic theory of sound absorption in crystals with defects X

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 6, no. 2, 1961, 197 - 201

TEXT: Existing thermodynamic theories of sound absorption in solids are based on adiabatic assumptions, and suffer from the lack of detailed knowledge of the factors representing the sound absorption due to plasticity. The author used a thermodynamic relaxation method to obtain a general expression for sound absorption in crystals with defects which reduces to the existing expression, with corresponding assumptions. The free energy of a crystal in which a sound wave is propagating was expanded into

$$2F(X, u_{ik}, \eta) = 2F(T_0, C_0) + \lambda_{iklm} u_{ik} u_{lm} + \gamma \theta^2 + \beta \eta^2 + 2\alpha_{ik} u_{ik} \theta + 2\delta_{lm} u_{lm} \eta + 2\Lambda \theta \eta, \quad (1)$$

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S/185/61/006/002/008/020
D210/D304

Thermodynamic theory of sound ...

N_1 number of defects formed; U_0 - energy of one defect; N - number of atoms in the crystal; ρ - density; μ - mass of one gram atom of the substance. The time variation of θ and η were represented by

$$\dot{\theta} = -a_{11}(\theta - \bar{\theta}) - a_{12}(\eta - \bar{\eta}), \quad (3)$$

$$\dot{\eta} = -a_{21}(\theta - \bar{\theta}) - a_{22}(\eta - \bar{\eta}).$$

where $\bar{\theta}$ and $\bar{\eta}$ are the equilibrium values corresponding to given values of the variable μ_{ik} . On applying a number of transformations

F was obtained in a new form which was then differentiated with respect to the strain tensor to obtain the stress tensor σ_{ik} . The

displacement vector for the sound deformation was expressed in the form

$$u_m = u_m^0 \cos(\omega t - \vec{k} \cdot \vec{r}), \quad (m = 1, 2, 3) \quad (19)$$

and the strain tensor in the form

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S/185/61/006/002/008/020
D210/D304

Thermodynamic theory of sound ...

of an isotropic medium, where the correlation between temperature and concentration can be neglected (small deviation from equilibrium), the absorption coefficient is given by

$$\Pi = \frac{1}{2\rho c^3} \left[\frac{(\alpha^T)^2 K^2 T}{C_v} \cdot \frac{\omega^2 \tau_\theta}{1 + \omega^2 \tau_\theta^2} + \frac{(\alpha^c)^2 K^2 \mu C_0}{\rho R T} \cdot \frac{\omega^2 \tau_\eta}{1 + \omega^2 \tau_\eta^2} \right], \quad (28)$$

K - bulk compression modulus; τ_θ - temperature relaxation time; τ_η - concentration relaxation time. The first half of this equation represents the temperature coefficient Π_T which reduces to the standard equation

$$\Pi_T = \frac{(\alpha^T)^2 K^2 T}{2 c^5 C_v^2} \omega^2 \tau_\theta, \quad (30)$$

when $\tau_\theta = c^2 C_v / \omega^2 \kappa$ and $\omega \tau_\theta \gg 1$. There are 7 references: 5 Soviet-bloc and 2 non-Soviet-bloc. The references to the English-language

Card 5/6

SVERGUNENKO, L.A.

Effect of electrons and quasi-particles of the lattice on the
absorption of sound in solids. Izv.vys.uch.zav.; fiz. no.4:46-53
'62. (MIRA 15:9)

1. Dnepropetrovskiy meditsinskiy institut.
(Crystal lattices) (Absorption of sound)

On the absorption of sound waves ...

S/185/62/007/005/008/013
D407/D301

system of equations

$$\dot{S}_i = \frac{\partial F}{\partial F_i} \quad (i = 1, 2, \dots, n) \quad (1.3)$$

where

$$2\Phi = \sum L_{ik} F_i F_k, \quad F_k = \frac{\partial F}{\partial S_k}, \quad (1.4)$$

L_{ik} denoting the tensor of kinetic coefficients. System (1.3) corresponds to the approximation of irreversible thermodynamics. After calculations, one obtains for the acoustic-absorption coefficient:

$$\Pi = \frac{1}{2\rho v_s} \sum \beta_{ik}^2 \{ (\mathcal{L} \mathcal{Q} + \Omega^2 \mathcal{L}^{-1})^{-1} \}_{ik} \xi_{lm} \frac{u_k^0 u_m^0 k_i k_l}{(u_m^0)^2} \quad (1.20)$$

or, (setting $\tau = (\mathcal{L} \mathcal{Q})^{-1}$),

$$\Pi = \frac{1}{2\rho v_s} \sum \beta_{ik}^2 \{ (\mathcal{G} + \Omega^2 \tau)^{-1} \tau \mathcal{Q}^{-1} \}_{ik} \xi_{lm} \frac{u_k^0 u_m^0 k_i k_l}{(u_m^0)^2}, \quad (1.21)$$

where β and the elements α_{ik} of the matrix \mathcal{Q} are the coefficients in the expression for the free energy, k_i are the components of the

Card 2/4

On the absorption of sound waves

S/185/62/007/005/008/013
D407/D301

wave vector, and τ is the relaxation-time matrix. Formulas (1.20) and (1.21) can be used in actual calculations for any number of parameters and any anisotropic medium; thereby it is required to know the free energy of the specimen under acoustic perturbations. These formulas are however rather cumbersome. Hence, the author derives a simpler formula, by setting L_{ik} and α_{ik} equal to zero. The above formulas are used for calculating the acoustic-absorption coefficient in binary solid solutions. A substitutional solid solution is considered, which is of β -brass type and can be ordered. Thereby the free energy is written in the Gors'kiy-Bragg-Williams approximation. Formulas are obtained for the sound absorption in such solutions. These formulas are used in the analysis of sound absorption, due to the relaxation of the degree of long-range order η , for two limiting cases (when the parameter η approaches zero and unity, respectively). The absorption maximum was observed at a temperature $T_m = 315^\circ\text{C}$, by setting the maximum damping-decrement $\Delta_{\max} = 5.2$.

• 10-3. The calculated and experimental values of the decrement were of the same order of magnitude. Formulas are obtained for the temperature dependence of the sound-absorption maximum and for the

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42768

S/185/62/007/010/010/020
D234/D308

24,7300

AUTHOR: Sverhunenko, L. O.

TITLE: Effect of adding a third element on the absorption of sound in binary alloys

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 7, no. 10, 1962, 1110-1116

TEXT: Using an expression for sound absorption obtained by him previously (Ukr. fiz. zh., 7, no. 5, 1962), the author considers the case when the atoms of the third element, C, are situated at the lattice nodes of binary alloys A-B having equal number of nodes of both kinds, the nodes of each kind being surrounded only by those of the other. The free energy is taken in an approximation accounting for correlation in the distribution of the atoms. Assuming that the distant order in the distribution of C atoms remains nearly unchanged during the propagation of a sound wave, it is concluded that there is at least one absorption maximum near the temperature of transition from order to disorder. The temperature

Card 1/2

Effect of adding ...

S/135/62/007/010/010/020
D234/D308

at which this maximum occurs is different for the A-B alloy with and without addition of C. The author also studies the case when C atoms are at the octahedral interstitial points of the A-B alloy having a body-centered cubic lattice of B-brass type. The free energy is taken in an approximation not accounting for correlation. The presence of C atoms does not affect the sound absorption at all. If the redistribution of C atoms is taken into account, the absorption due to it is equal to zero in the case of small concentrations of C, the C atoms being situated at interstitial points of one kind only. The author thanks M. A. Kryvohlaz for advice.

ASSOCIATION: Dnipropetrovs'kyy medychnyy instytut (Dnepropetrovsk Medical Institute)

SUBMITTED: February 26, 1962

Card 2/2

ACCESSION NR: AR4046011

S/0058/64/000/007/E075/E075

AUTHOR: Svergunenko, L. A.

SOURCE: Ref. zh. Fizika, Abs. 7E577

TITLE: Contribution to the theory of internal friction in metals and alloys in the presence of several relaxing parameters

CITED SOURCE: Sb. Relaksats. yavleniya v. met. i splavakh. M., Metallurgizdat, 1963, 40-45

TOPIC TAGS: internal friction, relaxation kinetics, kinetic equation, specific heat, ordered alloy

TRANSLATION: The author points out the expediency of analyzing internal friction (IF) within the framework of a theory with many relaxation parameters. Relations are presented, describing the magnitude of the IF in an arbitrary anisotropic medium in terms of its

Card

1/2

ACCESSION NR: AR4046010

S/0058/64/000/007/E067/E067

SOURCE: Ref. zh. Fizika, Abs. 7E514

AUTHOR: Svergunenko, L. A.

TITLE: On the influence of electrons and quasiparticles of the lattice on the internal friction in metals and alloys

CITED SOURCE: Sb. Relaksats. yavleniya v met. i splavakh. M., Metallurgizdat, 1963, 53-54

TOPIC TAGS: internal friction, crystal lattice structure, kinetic equation, relaxation kinetics, electron phonon collision

TRANSLATION: Formulas for estimating the influence of electrons and quasiparticles of the crystal lattice on the internal friction (IF) in metals and alloys are proposed on the basis of the thermodynamics of irreversible processes. The use of these formulas is possible if

Card 1/2

L 18086-63/

EWP(q)/EWT(m)/EDS

AFFTC/ASD

JD/JG

S/0181/63/005/008/2052/2058

ACCESSION NR: AP3005308

AUTHOR: Svergunenko, L. A.

TITLE: Effect of ordering on internal friction in alloys of the type Fe_3Al

SOURCE: Fizika tverdogo tela, v. 5, no. 8, 1963, 2052-2058

TOPIC TAGS: ordering, alloy, Fe, Al, transition, relaxation, internal friction, thermal expansion, elastic modulus

ABSTRACT: On the basis of a theory with many relaxation parameters (L. A. Svergunenko, Izv. vuzov SSSR, Fizika, No. 4, 46, 1962), the author investigates internal friction in alloys of the Fe_3Al type, resulting from relaxation of higher-order parameters. The relationship thus obtained expresses a value of internal friction Q^{-1} through the physical characteristics of the alloy (elastic modulus, coefficient of thermal expansion, parameters of order) and permits the calculation of numerical values of Q^{-1} for various temperatures. Numerical computations for Fe_3Al of stoichiometric composition indicate that at the temperatures of transition T_1 and T_2 internal friction may reach values on

Card 1/2

L 18086-63

ACCESSION NR: AP3005308

the order of 10^{-1} to 10^{-2} . Orig. art. has: 29 formulas.

ASSOCIATION: Dnepropetrovskiy meditsinskiy institut (Dnepropetrovsk Medical Institute)

SUBMITTED: 29Apr62

DATE ACQ: 06Sep63

ENCL: 00

SUB CODE: PH, ML

NO REF SOV: 006

OTHER: 004

Card 2/2

SVERGUNENKO, L.A. [Sverhunenko, L.O.]

Characteristics of the deformation of solid bodies under the
combined effect of diffusion and heat conduction. Dop. AN URSSR
no.4:460-464 '65. (MIRA 18:5)

1. Dnepropetrovskiy meditsinskiy institut.

SVERIDENKO, P. A.

"Use of the Theory of Rotating Poles to Analyze Asynchronous Machines with Single-Phase Stator and Rotor", Elektrichestvo, No 7, 1948, Prof., Dr. Tech. Sci. Moscow. -cl948-.

SVERKALOV, V.

Youth reveres the memories of heroes who fell in combat. Voen. znan.
36 no.1:14 Ja '60. (MIRA 12:12)

1.Sekretar' Ul'yanovskogo oblastnogo komiteta Vsesoyuznogo
Leninskogo Kommunisticheskogo soyuza molodezhi.
(Heroes)

S/106/62/000/005/006/007
A055/A101.

Investigation of multilayer shields in coaxial cables

thin shields. The shielding factor of the examined three-layer shield, such as finally found by the authors, is:

$$S_{123} = \frac{1}{\operatorname{ch} k_1 t_1 \operatorname{ch} k_2 t_2 \operatorname{ch} k_3 t_3} \frac{1}{\left(1 + \frac{Z_{m1}}{Z_{m2}} \operatorname{th} k_1 t_1 \operatorname{th} k_2 t_2\right) \left(1 + \frac{Z_{m2}}{Z_{m3}} \operatorname{th} k_2 t_2 \operatorname{th} k_3 t_3\right)}$$

where $K = \sqrt{i \omega \mu \sigma}$ are the eddy currents coefficients of the corresponding shield layers; t are the thicknesses of the shield layers; $Z_m = \sqrt{\frac{i \omega \mu}{\sigma}}$ are the wave impedances of the metal of the corresponding layers. On the basis of this formula, the authors obtain also analogous formulae for the shielding factor of the two-layer and one-layer shields. The authors next deal with the calculation of the "shielding attenuation" in the case of the three-layer (copper-steel-copper) shields and for different thicknesses of the copper and steel layers, the total thickness of the shield being constant and equal to 0.2 mm; this calculation was made for the 60 - 550 kc/s range. Two graphs are presented, giving, respectively, the frequency dependence of the attenuation and its dependence on the increase of the thickness of the steel layer. Another graph shows

Card 2/3

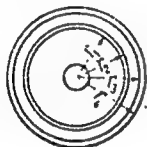
Investigation of multilayer shields in coaxial cables

S/106/62/000/005/006/007
A055/A101

the relative importance of the "absorption attenuation" and the "reflection attenuation" in the case of a three-layer aluminum-steel-aluminum shield. At the end of the article, the authors reproduce a table giving the measured crosstalk attenuation between small coaxial cables, intended for the h-f multiplexing system K-300. The Soviet personality mentioned in the article is V. Mashkova. There are 5 figures and 2 tables.

SUBMITTED: December 15, 1961

Figure 2:



Card 3/3

SRAPIONOV, Onik Sergeyevich; YEREMINA, Zinaida Petrovna;
SVERKALOVA, Aleksandra Pavlovna; KUZNETSOV, M.A., otv.red.;
SAKHAROVA, Ye.D., red.

[Business accounting within communication system enterprises]
Vnutriproizvodstvennyi khozraschet v predpriatiakh svyazi.
Moskva, Izd-vo "Svyaz" 1964. 36 p. (MIRA 17:5)

GRODNEV, I.I., doktor tekhn.nauk; LYUBIMOV, K.A., kand.tekhn.nauk;
SVERKALOVA, A.P., inzh.

Small-sized coaxial cable. Elektrotehnika 35 no.3:46-47
Mr '64. (MIRA 17:5)

SVERKO., J.

Interdepartmental cost accounting in the Sverma Iron Works in Podbrezova. p. 344

TECHNICKA PRACA. Czechoslovakia, Vol. 7, No. 8, August 1955

Monthly List of East European Accessions, (ZEAI), LC. Vol. 8, No. 9, September 1959
Uncl.

SVERKUNOV, A., teknik

Scraper conveyer operation control. Mast. ugl. 4 no. 7:20 J1'55.
(Conveying machinery) (MIRA 8:10)

SVERKUNOV, A., gornyy tekhnik.

Cable pusher. Mast.ugl. 5 no.7:21 J1 '56. (MIRA 9:9)
(Mine railroads)

SYERKUNOV, A.I., gornyy tekhnik.

Success of miners of the Darasun Mining Administration. Gor.
zhur. no.7:63 J1 '56. (MLRA 9:9)

1. Vostochnosibirskoye otdeleniye nauchno-tekhnicheskogo
obshchestva tsvetnoy metallurgii.
(Darasun--Gold mines and mining)

SVERKUNOV, A.I.

V.G. Spisovskii's mine surveying instruments. Biul.tekh.-ekon.
inform. no.6:8-9 '58. (MIRA 11:8)
(Mine surveying)

SVERKUNOV, A.I.

"Mine surveyor" designed by V.G. Spisovskii. Biul. TSIIN tsvet.
met. no. 7:7-9 '58. (MIRA 11:?)
(Surveying--Instruments)

SVERKUNOV, B., propodavatel'

When everybody is active. Prof.-tekh. obr. 21 no.10:20
0 '64. (MIRA 17:11)

1. Gorodskoye professional'no-tehnicheskoye uchilishche No.17,
Novosibirsk.

AUTHOR: Sverkunov, D. (RAOVAP) SOV/107-58-10-14/55
TITLE: Komsomol Radio-Stations (Komsomol'skiye radiostantsii)
PERIODICAL: Radio, 1958, Nr 10, p 12 (USSR)
ABSTRACT: The author describes the growth and work of ultra-short wave
radio stations operated by Komsomol members in Chita.

Card 1/1

MALINOVSKIY, A.G., inzhener-podpolkovnik; SVERKUNOV, L.P., inzhener-
mayor

Automation in processing radar information (as revealed by foreign
press data). Vest. protivovozd. obor. no.8:47-51 Ag '61.(MIRA 14:8)
(Automation) (United States—Radar, Military)

SVERLOV, Aleksandr Andreyevich, kand. tekhn. nauk, dots.;
SERGEYEVA, I.N., red.

[Technology of metals; processes of especially fine finishing of rolling stock parts. Lectures for students specializing in "Diesel locomotives and their maintenance," "Manufacture of railroad cars and their maintenance," "Electrification of railroads." and "Construction and road machinery and equipment"] Tekhnologiya metallov; protsessy osobo tonkoi chistovoi obrabotki detalei podvizhnogo sostava. Lektsii dlia studentov spetsial'nostei "Teplovozy i teplovozhnoe khoziaistvo," "Vagonostroenie i vagonnoe khoziaistvo," "Elektrifikatsiia zheleznodorozhnogo transporta," "Stroitel'nye i dorozhnye mashiny i oborudovanie." Moskva, Vses. zaachnyi in-t inzhenerov zhel.-dor. transporta, 1964. 55 p.
(MIRA 18:4)

LEBEDIY, A. (Pavlovo Gor'kovskoy obl.); SVERLOV, N. (Kirillov Vologodskoy
obl.); BATMANOV, G. (Tambov); MOKROUSOV, Io. (Moskovskaya obl.)

Repaired by amateurs. Radio no.9:34 S '64. (MIRA 17:12)

SVERICV, V.N.; SERYI, N.V.

Universal circuit for the control of spring load drives. Prom. energ.
19 no.12:15-16 D '64. (MIRA 18:3)

SVERLOV, Vladimir Sergeyevich

(Leningrad Sci Res Inst of Expertise of Work Fitness and Work Organization of Invalids) - Academic degree of Doctor of Pedagogical Sciences, based on his defense, 26 April 1955, in the Council of the Inst of Psychology of the Acad of Pedagogical Sci RSFSR, of his dissertation entitled: "Orientation of the Blind."

Academic degree and/or title: Doctor of Sciences

SO: Decisions of VAK, List no. 26, 17 Dec 55, Byulleten' MVO SSSR,
Uncl. JPRS/NY 548

KHAYRETDINOV, I.A.; DOKUKIN, G.F.; PROKHOROV, V.G.; SVERLOVA, V.N.

Use of gas testing for prospecting in the fault areas of the
Western Sayan Mountains. Geol. i geofiz. no.10:135-137 '65.
(MIRA 18:12)

1. Krasnoyarskoye otdeleniye Sibirskogo nauchno-issledovatel'-
skogo instituta geologii, geofiziki i mineral'nogo syr'ya.
Submitted March 25, 1964.

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001654120004-8

Stern, H. 84

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001654120004-8"

AID P - 3469

Subject : USSR/Aeronautics
Card 1/1 Pub. 135 - 4/20
Author : Svershinskiy, R., Eng. Maj.
Title : Calculation for altitude in bombing with a radar sight
Periodical : Vest. voz. flota, 12, 17-23, D 1955
Abstract : The author discusses a formula established by Krylov, N., (this journal, No. 11, 1954), for the determination of errors due to the miscalculation of altitude. Examples, diagrams.
Institution : None
Submitted : No date

Determination of the activity of enzyme preparations in the clarification of fruit and berry juices. I. V. Sytykhov. *Konservnaya i Plodovosukhasnaya Prom.* 1938, No. 4; 24 p.; Chem. Zentr. 1939, 1, 1887; cf. C. A. 33, 4089. — Two methods are suggested. In the first, 0.01 g. of methylene blue is dissolved in 1 l. of distd. water and 20 cc. of this soln. is placed in an Erlenmeyer flask. To this are added 0.5 g. of the prepn. being tested, 20 cc. of water, and a quantity of paraffin oil and the flask is placed on a 40-2° water bath for at least 1 hr. A good prepn. decolorizes the methylene blue completely in this time; a less active prepn. reduces the intensity of the color; and a poor prepn. produces no appreciable effect. The other method offered depends on the detn. of the amt. of reducing substances formed during the enzymic decompn. of the pectin mol.
W. A. Moore

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<p>CA</p> <p>12</p> <p>The determination of iron oxides and metallic inclusions. I. V. Syrovatkin. Lab. Prakt. (U. S. S. R.) 13, No. 5, 31-2(1938); Chem. Zentr. 1939, I, 2009.—A method is given for the detn. of such impurities in flour and similar products. One sheet of filter paper is impregnated with a 5% HOAc soln. and another with a 1% tannin soln. and the filter papers are placed on 2 glass plates. The product being tested is uniformly spread on the paper satd. with HOAc and the tannin-contg. filter paper placed over it. The presence of Fe compds. is marked by the appearance of dark spots formed by the reaction of the Fe acetate with the tannin. W. A. Moore</p>																																																			
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<p>ca</p> <p>New reactions for the detection of sulfurous acid in fruit and berry juices. I. V. Svershkov, <i>Lab. Prakt.</i> (U. S. S. R.) 1939, No. 2, 3, 30. The reagent is prepd. by mixing 1 part of 1% aq. soln. of methylene blue with 2 parts of 5% soln. of I in KI in a mortar. After 24 hrs. the ppt. is filtered, distd. water is added and the mixt. centrifuged. The washed ppt. is acidified with H_2SO_4 and kept in water. Into a test tube are added 5 cc. of the juice with 2 cc. of 1 N soln. of base, and they are kept for 15 min. The liquid is slightly acidified with H_2SO_4 and approx. 1-2 cc. is distd. off; a 15-20 cm. glass rod through the stopper is used as a condenser. Several flakes of the prepd. reagent are then added to the distillate. A blue or light blue color proves the existence of SO_2 in the juice.</p> <p>By comparing the color with a color standard the amt. of SO_2 can be detd.</p> <p>W. R. Heun</p>																										12																																																																																																																																																																																					
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<p><i>A</i></p> <p>Determination of reducing sugars by means of potassium dichromate. I. V. Sverzhkov. <i>Lab. Prakt.</i> (U. S. S. R.) 16, No. 6, 27-8(1941).—In the Bertrand method for detg. reducing sugar the end point in the titration of Fe^{3+} with MnO_4^- is not well defined. To overcome this difficulty S. combined the Bertrand and Kolthoff methods. After dissolving Cu_2O in $Fe_2(SO_4)_3 \cdot (NH_4)_2SO_4$ soln. add 5 drops of diphenylamine soln. (0.5 g. in 100% H_2SO_4) and 3 ml. of H_3PO_4 and titrate the Fe^{3+} with 0.1 N $K_2Cr_2O_7$ un- til a blue-violet color appears. Reproducible results are obtained and the method is much simpler than the original Bertrand method. W. R. Hemm.</p>																										<p><i>7</i></p>																									
<p>ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>																										<p>ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>																									
<p>1ST AND 2ND ORDERS</p>																										<p>1ST AND 2ND ORDERS</p>																									

CA

12

Hygienic evaluation of sulfoformite. I. V. Syershtkov
and V. S. Kozlovskii (Ukrain. Nutrition Research Inst.,
Kiev). *Gigiena i Sanit.* 11, No. 6, 36-7 (1946). Sulfo-
formite method of fruit preservation was found to be satis-
factory for "dry" sulfite treatment of the fruit. No ac-
cumulation of N oxides in the treatment chamber was
noted, when the following mixt. was used as the SO₂
source: 72% S, 18% NaNO₂, 10% sawdust. G. M. K.

COMMON ELEMENTS		PROCESSING AND PROPERTIES INDEX	
<p>Toxicity of Mikrobis (a food preservative). I. V. Sverzhikov, V. S. Koslovskii, and A. A. Tostanovskaya.</p> <p><i>Gigiena i Sanit.</i> 13, No. 9, 33-4(1948).—Mikrobis is a mixt. of 85% <i>p</i>-chlorobenzoic acid and 15% Na_2SO_3. Its aq. solns., even at 0.5% concn., do not irritate mucous membranes and no significant toxicity in rabbit, mouse, or frog expts. was observed up to 0.15 g./kg. doses. Higher doses depress the central nervous system and respiration, with lethal results at very high dosage. The usual 0.1% concn. is safe for human consumption and suitable for fruit and berry preservation. G. M. Kozlovskii</p>		<p>12</p>	
<p>ASB-5LA METALLURGICAL LITERATURE CLASSIFICATION</p>			
<p>SECTION DIVISION</p>		<p>SECTION DIVISION</p>	
<p>SECTION DIVISION</p>		<p>SECTION DIVISION</p>	

SVERSHKOV, I.V.

USSR.

✓ Hygienic evolution of maleic esters used as antioxidants

I. V. Svershkov and A. A. Testanovskaya (Krim. Sci.

~~Research Institute for Nutrition, Kiev). Vopr. Zhivotn. Med.~~

~~1955). Toxic doses of M-maleinat I and~~

~~II, mixed. II, given directly, or to different animals~~

~~are the following: I 0.5-1 g./kg. body wt. of guinea pig;~~

~~I 1-1.5 g./kg., for the mixt. of I and II 1.25-2 g./kg.,~~

~~however, the 1:1 mixt. of I and II in the amt. of 0.5~~

~~g./kg. body wt. was without any toxic effect. On feeding~~

~~cats and dogs during 40-60 days with margarine contg.~~

~~0.01% of the mixt. of I and II in the amt. of 4-6 g. of the~~

~~mixt./kg. body wt., some pathol. effects were noticed, on~~

~~feeding 1-2 g. of the mixt./kg. body wt. the exptl. animals~~

~~behaved normally. The antioxidants I and II possess also~~

~~fungicidal properties. The amt. of 0.005% each of I and~~

~~II in margarine stored in refrigerator~~

~~prolonged its life for 45 days, while the control margarine~~

~~in the amt. of the antioxidants 2% was covered~~

~~with a compact mycelium within 28 days, which pene-~~

~~trated in some places as deep as 5 cm. Thus, I and II in~~

~~the amt. of 0.005% each, can be successfully used as anti-~~

~~oxidants and preservatives of margarine. In margarine~~

~~separated was found to be also harmless to the animals.~~

P. WROBKI

SV ERSHKOV, I V.

med ✓ Chemical composition of vegetables grown in greenhouses.
I. V. Svershkov and D. S. Dukhan (Nutrition Inst., Kiev).
Voprosy Pitaniya 15, No. 5, 89-90 (1956). — Moisture, dry
substance, invert sugar, sucrose, Ca, Mg, P, K, Fe, as-
corbic acid, carotene, and thiamine are given for red cab-
bage, cucumbers, sweet pepper, and egg plants grown in
green houses and in the field. All vegetables grown in
greenhouses, except red cabbage, had superior nutritional
value.
R. Wierzbicki

2

SVERSHKOV, I.V.

~~Making noise-producing parts of children's toys from nondecaying material.~~ (Fig. 1 san. 21 no.11:78-79 N '56. (MIRA 10:2)

1. Iz laboratorii pishchevoy khimii Ukrainskogo nauchno-issledovatel'skogo instituta pitaniya.
 "(TOYS)

SVERSHKOV, I.V., dotsent; BIRKOVSKIY, Yu. Ye.

Prevention of dermatitis in fishery workers processing fresh and frozen gobies. Vest.derm. i ven. Zh. no.3:51-52 My-Je '57.

(MIRA 10:11)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta pitaniya i iz Kiyevskogo nauchno-issledovatel'skogo instituta epidemiologii i mikrobiologii.

(SKIN--DISEASES)

(FISHERIES--HYGIENIC ASPECTS)

SVERSHKOV, I.V.

Sanitary inspection of food products exposed to ammonia gas.
Gig. 1 san. 23 no.8:79 Ag '58 (MIRA 11:9)

1. Iz Ukrainского nauchno-issledovatel'skogo instituta:
(AMMONIA)
(FOOD CONTAMINATION)

SVERSHKOV, I.V.

Identifying glasslike bodies in frozen sugared fruit and berries. Gig.
i san. 24 no.9:82 S '59. (MIRA 13:1)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta pitaniya.
(FRUIT, FROZEN)

SYVERSHKOV, I.V.; DOBRIYER, I.B.; KAZNACHNY, P.Ya.

Causes of beet-red staining in fermented vegetables. Vop.pit.
19 no.1:90-91 Ja-F '60. (MIRA 13:5)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta pitaniya
Ministerstva zdravookhraneniya USSR, Kiev.
(VEGETABLES)

SVERSTYUK, Ye.O. [Sverstiuk, I.E.O.]

Peculiarities in the understanding of older pupils of the motivations for the conduct of literary figures. Nauk.zap.Nauk.-
dosl.inst.psychol. 10:91-139 '59. (MIRA 13:5)
(Comprehension)
(Characters and characteristics in literature)

SVERSTYUK, Ye.O. [Sverstiuk, Ye.O.]

Peculiarities in the understanding by older pupils of motivations
in the conduct of characters. Nauk. zap. Nauk.-dosl. inst. psykhol.
11:156-159 '59. (MIRA 13:11)

1. Institut psikhologii, Kiyev.
(Comprehension)

SVERTSOV, NIKOLAI ALEKSEEVICH

SVERTSOV, NIKOLAI ALEKSEEVICH. Puteshestvie po Turkestanskomu kraiu. Izd.
2-e. Moskva, Geografiz, 1947. 304 p. DLC: DK854.S47 1947
ICU MH NGrnUN NN NNC WaU

SO: LC, Soviet Geography, Part I, 1951, Uncl.

SVERZHEVSKIY, V.L., geolog; POLOZHAY, G.T., geolog; BOGODEROV, M.A., geolog

Physicomechanical properties of rocks at great depths. Ugol' Ukr.
7 no.6:19-21 Je 63. (MIRA 16:8)

1. Trest Artemgeologiya.

SVERZHEVSKIY, V.L.; POLOZHAY, G.T.; PORTNOY, N.Z.; BOGODEROV, M.A.;
MARTYNYUK, V.V.

Behavior of roof rock in coal mine stopes. Ugol' 39 no.10:9-12
0 '64. (MIRA 17:12)

1. Trist Artemgeologiya.

NEKOLIN, N.; kand. tekhn. nauk; LYSIKOV, B.A., inzh.; SVERZHEVSKIY, V.L.,
inzh.

Strength properties of sandstone at great depths. Shakht. stroi.
9 no.3:15-17 Mr '65. (MIRA 18:7)

1. Makeyevskiy nauchno-issledovatel'skiy institut po bezopasnosti
rabot v gornoy promyshlennosti (for Nikolin). 2. Donetskii poli-
tehnicheskii institut (for Lysikov). 3. Trest Artemgeologiya
(for Sverzhhevskiy).

SVERZHINSKAYA, B.M.

Intestinal invaginations in capillary toxicosis (Schoenlein-Henoch purpura). *Pediatrics* 39 no.5:60-62 S-O '56. (MLRA 10:1)

1. Iz khirurgicheskogo otdeleniya (zav. D.B.Avidon) detskoy bol'nitsy imeni K.A.Naukhfusa (glavnyy vrach V.A.Vinogradova) na baze kafedry khirurgii detskogo vozrasta (zav. kafedroy - prof. A.V.Shatskiy) Leningradskogo pediatricheskogo meditsinskogo instituta.

(PUERPERA, NONTHROMBOGENIC, in infant and child,
with intussusception (Rus))

(INTESSUSCEPTION, in infant and child,
in non-thrombogenic purpura (Rus))

SVERZHINSKAYA, Ye. A.

PA-2T72

USSR/Minerals - Chemical Analysis
Monazite

Mar 1946

"Chemical Composition of the Monazite from Pegmatites
at the Station Alakurti (Karelo-Finnish SSR," E A
Sverzhinskaya, 2 pp

"Zap Mineral Obshch USSR" Vol 65, No 3

In percent: SiO_2 -1.32, TiO_2 - traces, Al_2O_3 -0.83
 FeO_3 -0.28, CaO -0.42, MgO -0.38, P_2O_5 -28.55, TaO_5 -0.15,
 ZrO_2 -61.77, H_2O etc.

2T72

AID P - 5123

Subject: USSR/Aeronautics, bombing

"APPROVED FOR RELEASE: 08/31/2001" CIA-RDP86-00513R001654120004-8"

Card 1/1 Pub. 135 - 8/26

Author : Sverzhinskiy, R. M., Eng.-Maj.

Title : Elimination of range errors with the aid of radar bomb-
sight during bombing.

Periodical : Vest. vozd. flota, 10⁴ 43-48, 0 1956

Abstract : Analysis of bombing errors in range when the synchronized
radar bombsight PSBN-m is used. Four diagrams, 2 graphs,
1 table. The article merits attention.

Institution : None

Submitted : No date

NEVZOROV, L.A., inzh.; SVESHCHINSKIY, I.B., inzh.

Ways to improve the assembly qualities of tower cranes with a
hoisting boom. Stroi. i dor. mash. 7 no.9:8-10 8 '62.

(MIRA 15:10)

(Cranes, derricks, etc.)

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001654120004-8

SYESHINRA, W. S.

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001654120004-8"